Austin Energy FY2022 Q3 Operations Update

August 2022

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Acting Deputy General Manager & Chief Operating Officer

Agenda

Quarterly Operations Update

Executive Summary

Generator availability on-target

For the quarter, resources mostly met availability targets, except where FPP outages were experienced.

Reliability performance stable

Performance over the longer term is trending statistically consistent with top quartile industry benchmarks.

Renewable production on-target

For the quarter, aggregate renewable production as a percentage of load at 61%.

Carbon free production on-target

For the month of April, 97% carbon-free generation as a percentage of load.

Austin Energy Operations Update

Reliability Performance

Generator Commercial Availability & Start Success

Commercial Availability

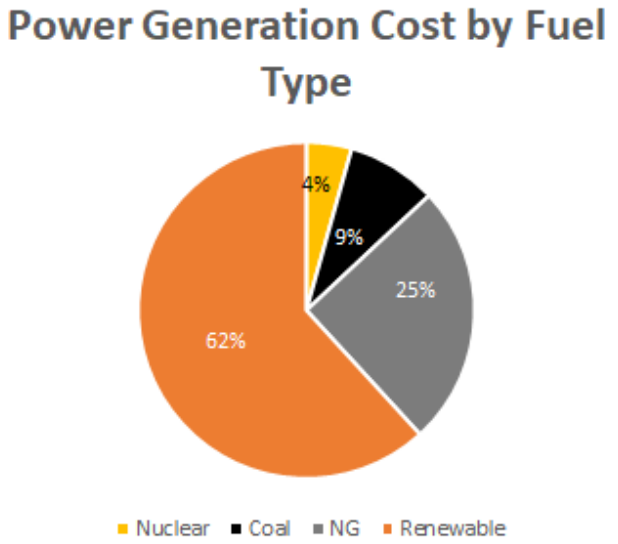
Generation Resource	Target Seasonal Commercial % Availability	Commercial Availability Actuals (%)	
		Q2 FY22 AVG	Q3 FY22 AVG
Decker Steam Units	95	98	-
Sand Hill Combined Cycle	95	55	100
Fayette Units	97	97	79
South Texas Project	100	100	100

Commercial Availability values reflect maintenance or refueling outages typical for this period

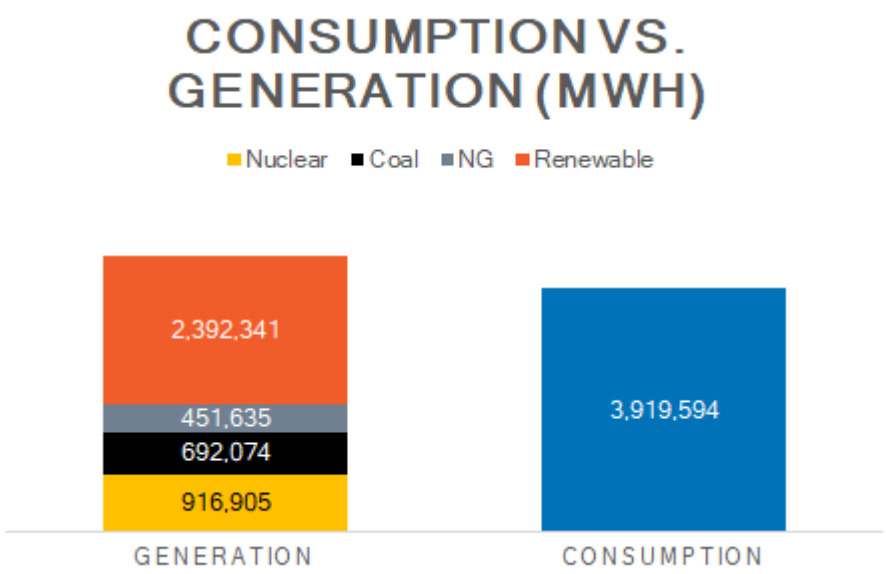
Start Success

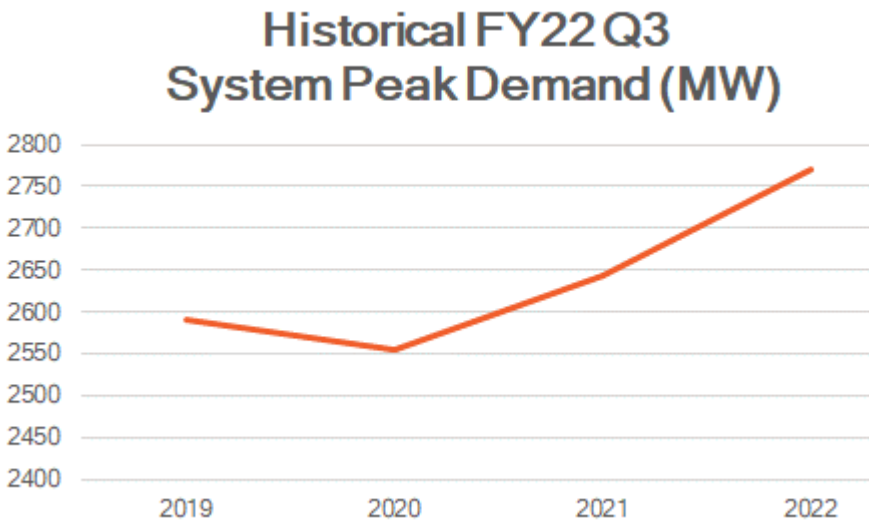
	Start Success Target(%)	Start Success Actuals (%)	
		Q2 FY22 AVG	Q3 FY22 AVG
Simple Cycle Start Success	99	100	100

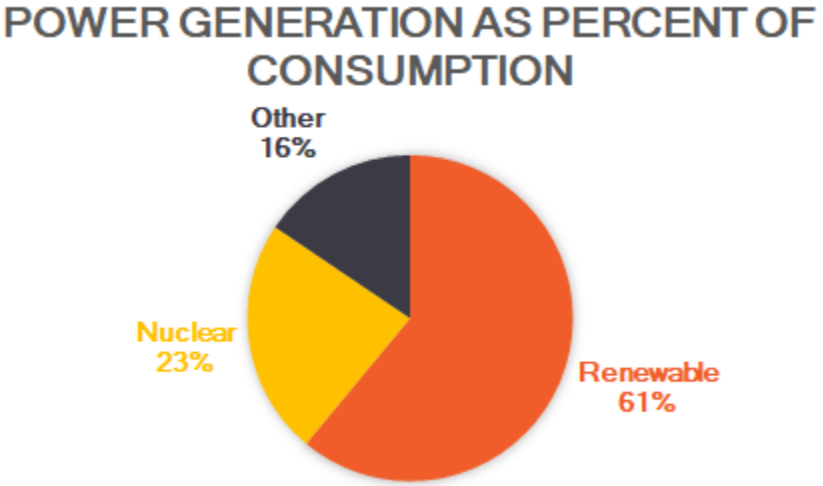
Net Generation and Load Analysis FY 2022 Q3



**Costs include fuel for generation, fuel transportation, renewable Power purchases agreements*







System Reliability

CAIDI = Customer Average Interruption Duration Index

Average time to restore service

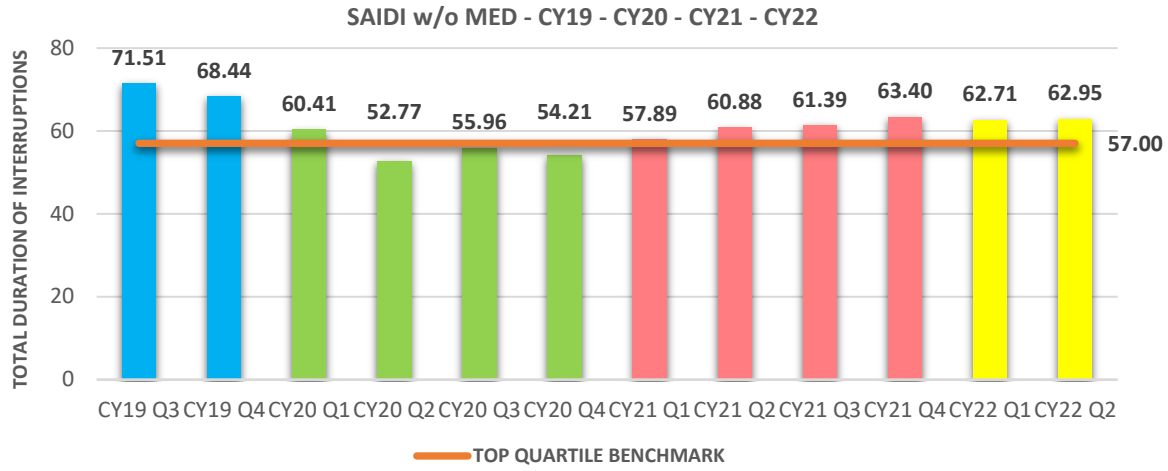
SAIDI = System Average Interruption Duration Index

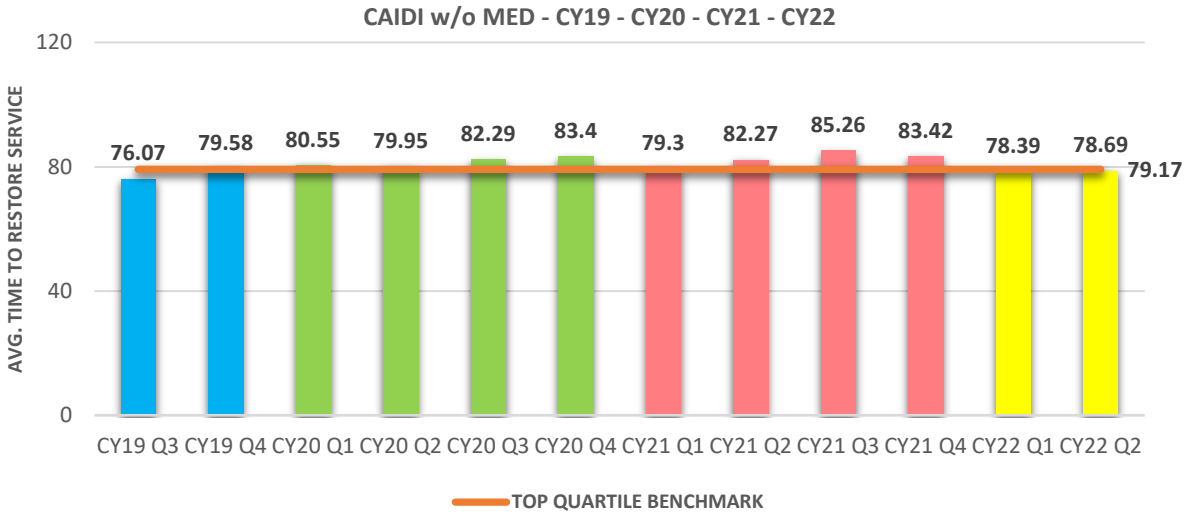
Total duration of interruptions for the average customer, during a period of time

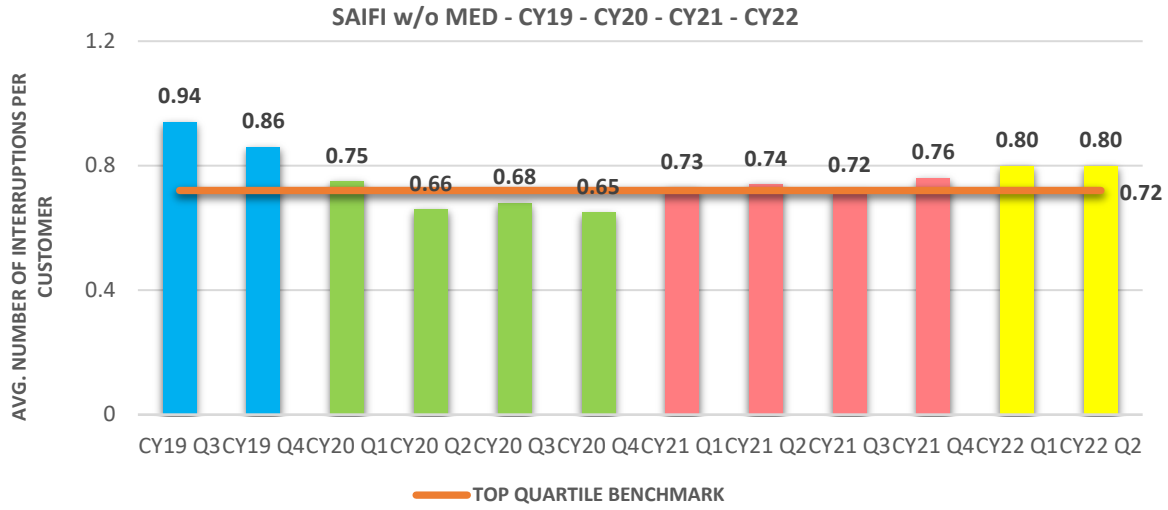
SAIFI = System Average Interruption Frequency Index

How often the average customer experiences a sustain interruption, over a period of time

MED = Major Event Days



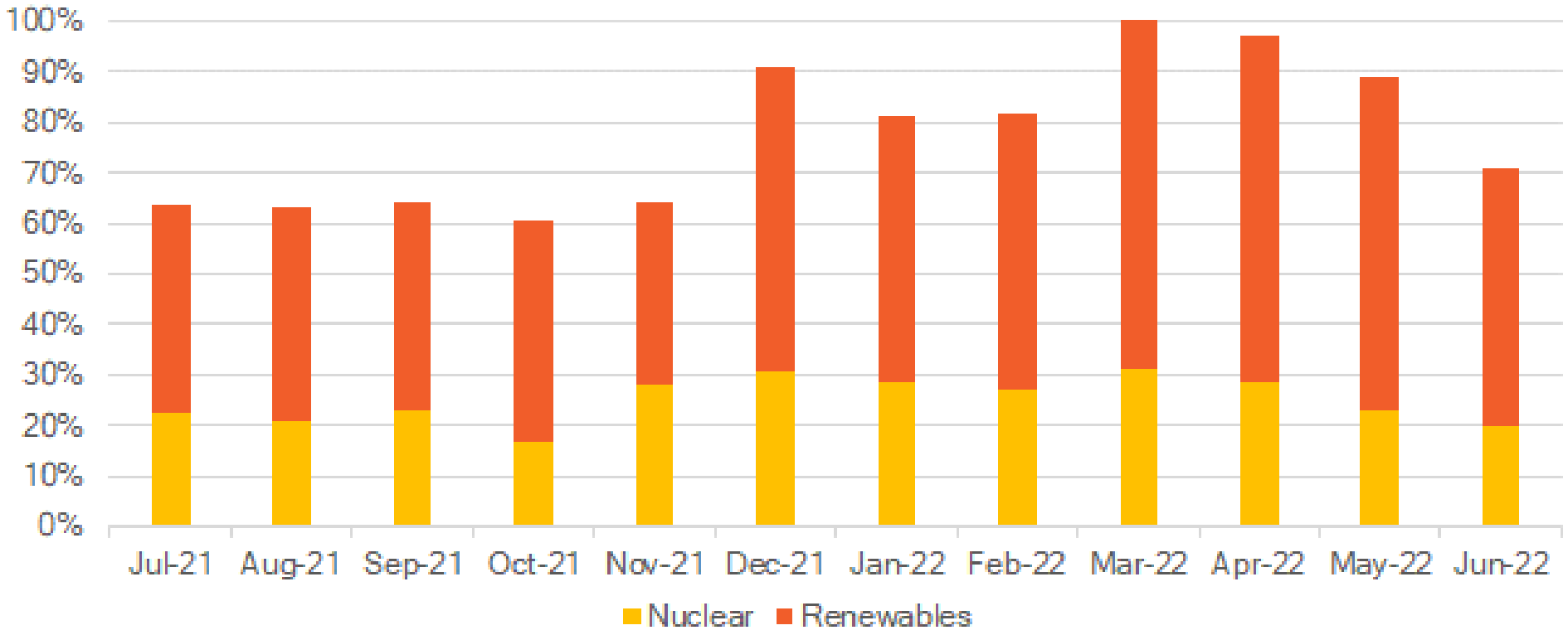




Austin Energy Operations Update

Environmental Performance

Carbon-Free Generation as a Percentage of Load



Environmental Focus

Aragorn Solar Project is now authorized to generate up to 187MW (previous limit set by PPA was 180MW) – thus 7MW increase in renewable portfolio

Austin Energy Operations Update

Grid Resilience Strategic Goal

Grid Resilience Initiatives

AE Strategic Goals 2020

Grid Resilience

Improve Distribution System Reliability

Identify, Rank, and Address feeder maintenance needs in areas historically beset by outages. Identify, Rank and Address system hardening needs in areas most susceptible to wildfire risk.

Phase I – Top 10 Feeders in both Performance and Wildfire Criticality addressed (CY/2022 - IN PROGRESS)

~~Phase II – Overall Distribution Resilience Program established, roll out~~ (Q1/2022 – **COMPLETE**)

Improve Substation Reliability

Evaluate substation equipment operation and address legacy equipment needs.

~~Phase I - Fiskville Substation Upgrades~~ (**COMPLETE**)

~~Phase II- Slow Breaker Operation –Rank and Schedule Substation Breakers for maintenance and remediation~~ (**COMPLETE**)

Improve Underground Network Reliability

Starts with enabling greater Visibility to our downtown network through the integration of our network model into our Advanced Distribution Management System

~~Phase I - Network Modeled in ADMS – (Q3/2020)~~ (**COMPLETE**)

~~Phase II - Network Primary Circuits Complete/Modeled in ADMS – (Q2/2021)~~ (**COMPLETE**)

Phase III -Network Secondary Circuits Complete/Modeled in ADMS – (Q4/2023 IN PROGRESS)

Transmission System of the Future

As part of the 2030 generation plan, Austin Energy is commissioning a Transmission system study that will investigate ways to achieve our goals set forth in the plan while compensating for the loss of generation plants.

~~Phase I - Development of evaluation criteria (Q1/2021)~~ (**COMPLETE**)

~~Phase II – Develop SOW for RFP release (Q2/2021)~~ (**COMPLETE**)

Phase III – Transmission System Assessment (Q2/2023 IN PROGRESS)

Austin Energy Operations Update

Hot Weather Preparedness

ERCOT Energy Emergency Alert System

Conservation Alerts

ERCOT may ask consumers to reduce electric use when tight operating reserves are expected.

EEA 1

- Conservation Needed
- Operating reserves below 2,300 MW and not expected to recover w/in 30 mins

Austin Energy activates Incident Command

EEA 2

- Conservation Critical
- Operating reserves below 1,750 MW and not expected to recover w/in 30 mins

EEA 3

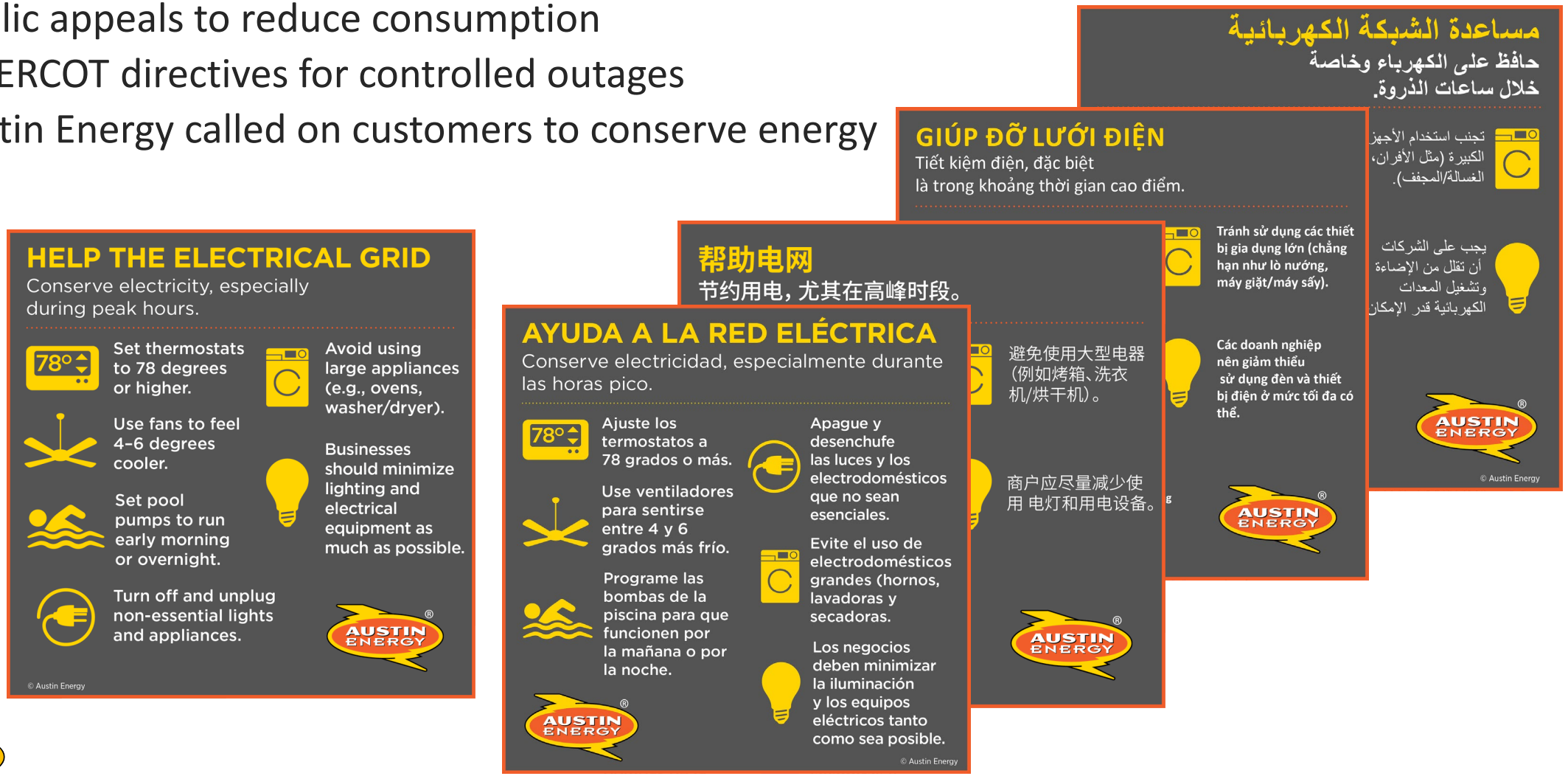
- Operating reserves below 1,000 MW and not expected to recover in 30 mins and/or frequency cannot be maintained
- ERCOT can mandate controlled outages*

***No controlled outages have occurred in 2022**

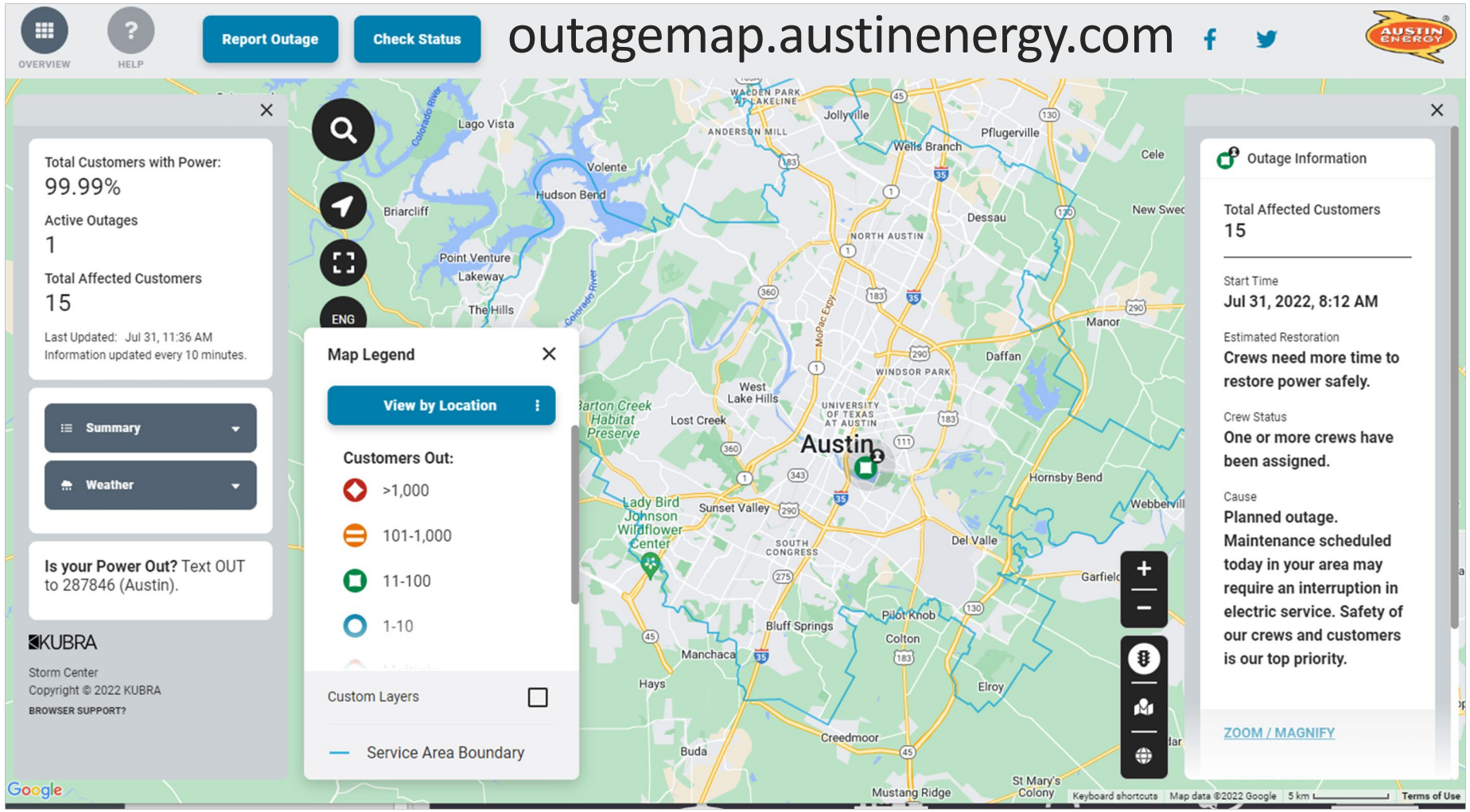
Conservation Appeals

ERCOT issued ***conservation*** notices for July 11 and 13, 2022

- Public appeals to reduce consumption
- No ERCOT directives for controlled outages
- Austin Energy called on customers to conserve energy



Local Outages



Common Causes of Outages

- Car Crashes
- Downed Trees
- Animal Interference
- Equipment Issues
- Construction Incidents

Customer Driven. Community Focused.SM